MACHINE LEARNING

Answer (1) – (A) Least Square Error

Answer (2) – (A) Linear regression is sensitive to outliers

Answer (3) – (B) Negative

Answer (4) – (B) Corelation

Answer (5) – (C) Low bias and high variance

Answer (6) – (C) Low bias and high variance

Answer (7) – (D) Regularization

Answer (8) – (D) SMOTE

Answer (9) – (A) TPR and FPR

Answer (10) – (A) True

Answer (12) – (A) We don't have to choose the learning rate

(B) It becomes slow when number of features is very large

(C) We need to Iterate

SUBJECTIVE

13. Explain the term regularization?

Answer : - Regularization : -

- This is a form of regression, that constrains/ regularizes or shrinks the coefficient estimates towards zero and this technique discourages learning a more complex or flexible model, so as to avoid the risk of overfitting.
- In simple word, Regularization is a technique used in regression to reduce the complexity of the model and to shrink the coefficients of the independent features.

14. Which particular algorithms are used for regularization?

Answer:-

- Ridge Regression
- LASSO Regression
- Elastic-Net Regression

15. Explain the term error present in linear regression equation?

Answer : -

- An error term represents the margin of error within a statistical model and it refers to the sum of the deviations within the regression line, which provides an explanation for the difference between the theoretical value of the model and the actual observed results. The regression line is used as a point of analysis when attempting to determine the correlation between one independent variable and one dependent variable.
- An error term appears in a regression equation to indicate the uncertainty in the model.